

3.1 Triangle Inequality Theorem Homework

Date _____ Period _____

State if the three numbers can be the measures of the sides of a triangle.

1) 3, 11, 8

2) 3, 6, 8

3) 23, 12, 10

4) 5, 11, 11

5) 9, 11, 3

6) 2, 8, 6

Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

7) 10, 7

8) 9, 10

9) 6, 11

10) 12, 7

11) 6, 7

12) 10, 12

Answers to 3.1 Triangle Inequality Theorem Homework (ID: 1)

1) No

2) Yes

3) No

4) Yes

5) Yes

6) No

7) $3 < x < 17$

8) $1 < x < 19$

9) $5 < x < 17$

10) $5 < x < 19$

11) $1 < x < 13$

12) $2 < x < 22$